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- 7) Applicant: WARNER-LAMBERT COMPANY 201 Tabor Road Morris Plains New Jersey 07950(US)
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- (54) Antibacterial agents.
- Novel naphthyridine-, and quinolinecarboxylic acids as antibacterial agents are described as well as methods for their manufacture, formulation, and use in treating bacterial infections including the description of certain novel intermediates used in the manufacture of the antibacterial agents.

EP 0 326 891 A

PARTIAL EUROPEAN SEARCH REPORT

which under Rule 45 of the European Patent Convention shall be considered, for the purposes of subsequent proceedings, as the European search report

EP 89 10 1085.2

	DOCUMENTS CONS				
Category	Citation of document with indication, where appropriate, of relevant passages		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. CI.4)	
D,A	US-A-4 341 784 (* Abstract * EP-A-0 207 420 (J. MATSUMOYO et al.	1-3,5- 7,11,	C 07 D 215/56 C 07 D 401/04 C 07 D 471/04 C 07 D 451/04 A 61 K 31/44 A 61 K 31/47 C 07 C 51/00// (C 07 D 471/04, C 07 D 221:00,	
a	CO. LTD.) * Claims 1,7,11,		1-3,5, 6,11, 13,26, 27		
A	CEUTICAL CO., LT				
	* Claims 1,2,12,	.14,15 *	1-3,5,6,11,	TECHNICAL FIELDS SEARCHED (int. Cl.4)	
		-	13,26,	C 07 D 215/00 C 07 D 401/00 C 07 D 471/00	
The Sear the proviout a mer Claims so Claims so Claims no Reason f	ch Division considers that the presersions of the European Patent Conversions of the E	C 07 C 45/00 C 07 C 51/00 C 07 C 63/00			
	Place of search	Date of completion of the search		Examiner	
Ber:		20-12-1989	c.v		
Y: pa	CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document CATEGORY OF CITED DOCUMENTS T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons A: member of the same patent family, corresponding document				



ı	CLAIMS INCURRING FEES				
	<u></u>				
The	present	European patent application comprised at the time of filing more than ten claims.			
l		All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.			
-		Only part of the claims fees have been paid within the prescribed time limit. The present European search			
1	□	report has been drawn up for the first ten claims and for those claims for which claims fees have been paid,			
		namely claims:			
i		No cialms fees have been paid within the prescribed time limit. The present European search report has been			
		drawn up for the first ten claims.			
X		CK OF UNITY OF INVENTION			
		Division considers that the present European patent application does not comply with the requirement of unity of			
	ention an nely:	nd relates to several inventions or groups of inventions,			
1	Claims 1-11,13-22,25-27: Quinoline- and naphthyridine carboxylic acids, their preparation and their use Claims 23,24: Process for preparation of fluorinated benzene derivatives (intermediates which have only a vague technical connection with the end - products (technical decision T 110/82) and which are structurally different to the end products (technical decision T 35/87)				
	X	All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.			
		Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid.			
		namely claims:			
		None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims.			
1		namely claims:			

PARTIAL EUROPEAN SEARCH REPORT

EP 89 10 1085.2

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DOCUMENTS CONSIDERED TO BE RELEVANT	CLASSIFICATION OF THE APPLICATION (Int. CI.4)	
Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	200 - 100 - 100 (mit, 01.7)
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* Claim 1; abstract *	1-3,5- 7,11,	•
	26,27	•
US-A-4 649 144 (J. MATSUMOTO et al.)		
* Claims 1,2,12 *	1-3,5,	
	26,27	TECHNICAL FIELDS SEARCHED (Int. CI.4)
US-A-4 571 396 (M.P. HUTT et al.)	}	
* Claims 1,3-5,31 *	1-3,5, 11,26,	
	27	
JOURNAL OF MEDICINAL CHEMISTRY, vol 23, 1980, pages 1358-1363; H. KOGA et al.: "Structure-activity relationships of antibacterial 6, 7- and 7,8-distributed 1-alkyl-1,4-dihydro-4-oxoquinoline-3-carboxylic acids"		
* Page 1358, abstract; page 1361, table III *	1-3,6,	
40 40	26,27	
vol. 35, no. 6, 1987, pages 2280- 2285;	,	
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	Citation of document with indication, where appropriate, of relevant passages US-A-4 146 719 (T. IRIKURA) * Claim 1; abstract * US-A-4 649 144 (J. MATSUMOTO et al.) * Claims 1,2,12 * US-A-4 571 396 (M.P. HUTT et al.) * Claims 1,3-5,31 * JOURNAL OF MEDICINAL CHEMISTRY, vol 23, 1980, pages 1358-1363; H. KOGA et al.: "Structure-activity relationships of antibacterial 6, 7- and 7,8-distributed 1-alkyl-1,4-dihydro-4-oxoquinoline-3-carboxylic acids" * Page 1358, abstract; page 1361, table III * CHEMICAL AND PHARMACEUTICAL BULLETIN vol. 35, no. 6, 1987, pages 2280-2285; T. MIYAMOTO et al.: "Pyridonecarboxylic acids as antibacterial agents. VIII. An alternative synthesis of enoxacin via fluoronicotinic acid derivatives" * Whole articles *	Citation of document with indication, where appropriate, of relevant passages US-A-4 146 719 (T. IRIKURA) * Claim 1; abstract * US-A-4 649 144 (J. MATSUMOTO et al.) * Claims 1,2,12 * US-A-4 571 396 (M.P. HUTT et al.) * Claims 1,3-5,31 * 1-3,5,6,11,26,27 US-A-4 571 396 (M.P. HUTT et al.) * Claims 1,3-5,31 * 1-3,5,11,26,27 JOURNAL OF MEDICINAL CHEMISTRY, vol 23, 1980, pages 1358-1363; H. KOGA et al.: "Structure-activity relationships of antibacterial 6,7- and 7,8-distributed 1-alkyl-1,4-dihydro-4-oxoquinoline-3-carboxylic acids" * Page 1358, abstract; page 1361, table III *



PARTIAL EUROPEAN SEARCH REPORT

EP 89 10 1085.2

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	* Claims 1,2; page 1, lines 48-55 *	1,2,4	
Y	JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol. 97, no. 25, 1975, pages 7383-7385; A.I. MEYERS et al.: "Oxazolines, XXII. Nucleophilic aromatic substitution on aryl oxazolines. An efficient approach to unsymmetri-		
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D,Y	BULLETIN OF THE CHEMICAL SOCIETY OF JAPAN, vol. 57, 1984, pages 225- 231; Y. INUKAI et al.: "Ortho-distri- buted f-benzenes. V. Intramolecular		
	heteroatomfaciliated ortho-sub- stitution of f-benzene derivatives with oxazolinyl and oxazinyl groups"	·	_
	* Page 225, scheme 2; page 226, scheme 3 *	23	
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PARTIAL EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT CLASSIFICATION OF THE APPLICATION (Int. Cl.4) Citation of document with indication, where appropriate, of relevant passages Relevant US-A-4 469 885 (R.A. MUELLER et al. A * Example 7 * 23 PATENT ABSTRACTS OF JAPAN, September 4, 1986, vol. 10, no. 258, (C-370) Α (2314)& JP-A-61 85 349 (NIPPON SHOKUBAI KAGAKU KOGYO CO LTD), April 30, TECHNICAL FIELDS SEARCHED (Int CI.4) Α PATENT ABSTRACTS OF JAPAN, May 28, 1987, vol. 11, no. 167, (C-425) (2614)& JP-A-62 00 045 (NIPPON SHOKUBAI KAGAKU KOGYO CO LTD) January 6, 1987 * Whole abstract * 23 A,P EP-A-0 287 951 (OTSUKA PHARMACEUTI-CAL CO., LTD.) * Page 44, end of product of reference example 21 *

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